

IN THE CLAIMS:

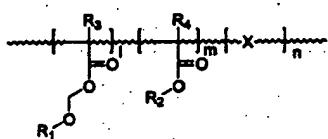
Please amend claims 1 and 3 as indicated below.

This listing of claims below will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A polymer for use in a chemically amplified resist, the polymer being represented by the following formula I:

Formula I



wherein R₁ is ~~an a cyclic~~ alkyl group having ~~1 to 30~~ 5 to 30 carbon atoms;

R₂ is hydrogen or an alkyl group having 1 to 30 carbon atoms;

R₃ and R₄ are independently hydrogen or a methyl group;

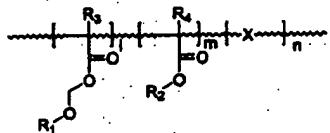
X is vinyl ether derivative, styrene derivative, or olefin derivative; and

l, m and n are a repeat unit of the polymer, wherein l is 0.05 to 0.9, ~~m is 0 to 0.7, and m is~~ 0.1 to 0.7, n is 0 to 0.7.

2. (Original) The polymer as claimed in claim 1, wherein the polymer represented by formula I comprises a monomer having a repeat unit l in an amount of at least 5 % of the total monomer content of the polymer.

3. (Currently Amended) A chemically amplified resist composition comprising a copolymer of at least one polymer represented by the following formula I, a photoacid generator, an additive, and a solvent:

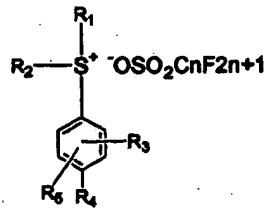
Formula I



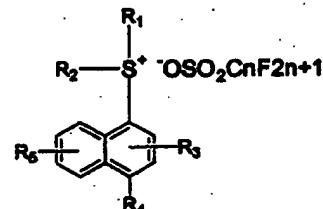
wherein R₁ is an a cyclic alkyl group having 1 to 30 5 to 30 carbon atoms;
 R₂ is hydrogen or an alkyl group having 1 to 30 carbon atoms;
 R₃ and R₄ are independently hydrogen or a methyl group;
 X is vinyl ether derivative, styrene derivative, or olefin derivative; and
 l, m and n are a repeat unit of the polymer, wherein l is 0.05 to 0.9, m is 0 to 0.7, and m is
0.1 to 0.7, n is 0 to 0.7.

4. (Original) The chemically amplified resist composition as claimed in claim 3, wherein the photoacid generator comprises at least one compound represented by the following formulas II and III:

Formula II



Formula III



and

wherein R₁ and R₂ are independently alkyl, allyl, perfluoroalkyl, benzyl or aryl;
 R₃, R₄ and R₅ are independently hydrogen, alkyl, halogen, alkoxy, aryl, thiophenoxy, thioalkoxy or alkoxy carbonylmethoxy; and
 n is an integer ranging from 1 to 8.

5. (Original) The chemically amplified resist composition as claimed in claim 3, wherein the photoacid generator is contained in an amount of 0.3 to 10 parts by weight based on 100 parts by weight of the solid content of the chemically amplified resist composition.

6. (Original) The chemically amplified resist composition as claimed in claim 4, wherein the photoacid generator is contained in an amount of 0.3 to 10 parts by weight based on 100 parts by weight of the solid content of the chemically amplified resist composition.

7. (Original) The chemically amplified resist composition as claimed in claim 3, wherein the polymer represented by formula I is contained in an amount of at least 3 % of the chemically amplified resist composition.

8. (Original) The chemically amplified resist composition as claimed in claim 3, wherein the polymer represented by formula I comprises a monomer having a repeat unit I in an amount of at least 5 % of the total monomer content of the polymer.

9. (Original) A patterning method comprising exposing the chemically amplified resist composition according to claim 3 using a radiation selected from ultraviolet(UV), X-ray or electron beam.